



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

WinDoor, Inc.  
7500 Amsterdam Drive  
Orlando, FL 32832

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "1000/2000 135° Fixed" Clipped, Extruded Aluminum Mullion – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-00661, titled "1000/2000 Series 135° LMI Vertical Mullion 4'0 x 10'0 and 5'0 x 8'0 Maximum Windows", sheets 1 through 8 of 8, dated 12/17/08 with revision A dated 06/05/09, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-0902.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*MP*  
7/31/28/12

NOA No. 12-0130.28  
Expiration Date: December 23, 2014  
Approval Date: April 05, 2012  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **08-00661**, Sheets 1 through 8 of 8, titled "1000/2000 Series 135° LMI Vertical Mullion 4'0 x 10'0 and 5'0 x 8'0 Maximum Windows", dated 12/17/08, with revision A dated 06/05/09, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of: series 1000 fixed windows w/180°aluminum impact mullion, series 2000 fixed windows w/180° mullion, series 1000/2000 fixed windows w/135°fixed mullion and series 1000/2000 fixed windows w/135°adjustable mullion, all prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3632-1**, dated 08/26/09, signed and sealed by Gerard J. Ferrara, P.E. (*Submitted under previous NOA#08-0902.02*)

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 6/9/08, prepared, signed and sealed by Luis R. Lomas, P.E.  
(*Submitted under previous NOA#08-0902.02*)
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

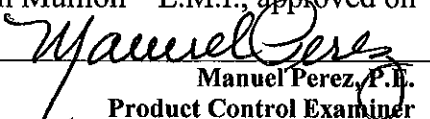
1. None.

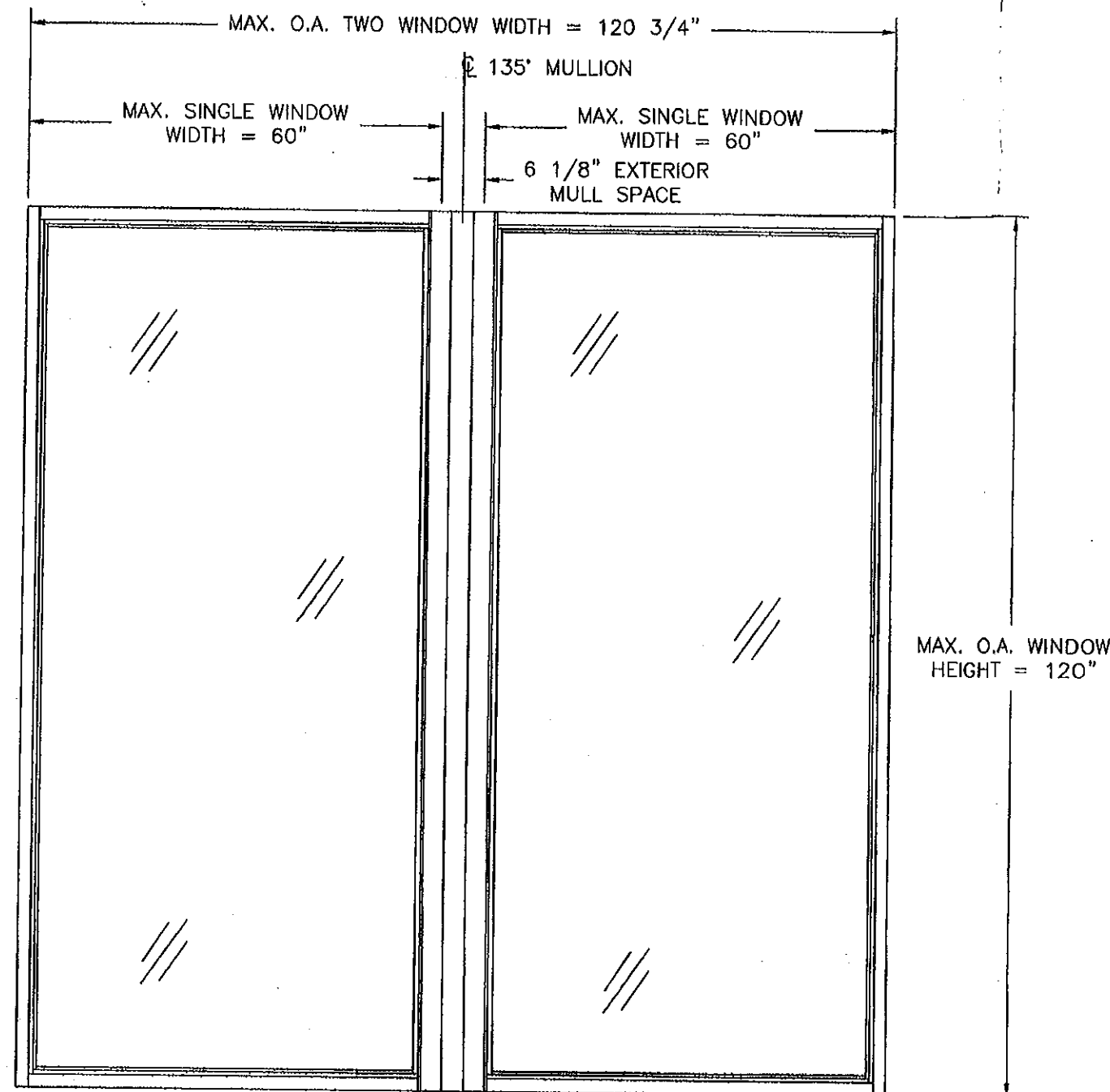
**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated January 19, 2012, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Report No. **NCTL-210-3632-1**, issued by National Certified Testing Laboratories, dated 08/26/09, signed and sealed by Gerard J. Ferrara, P.E. (*Submitted under previous NOA#08-0902.02*)

**G. OTHER**

1. Notice of Acceptance No. **08-0902.02**, issued to WinDoor, Inc. for their Series "1000/2000" 135° Fixed, Clipped Extruded Aluminum Mullion – L.M.I., approved on 12/23/09 and expiring on 12/23/14.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0130.28  
Expiration Date: December 23, 2014  
Approval Date: April 05, 2012



1000/2000 SERIES LARGE  
MISSILE IMPACT 135\"/>

TYPICAL ELEVATION EXTERIOR VIEW. DOUBLE SHOWN,  
MULTIPLES ARE APPROVED, SEE NOTE 12 SHEET 1

TABLE OF CONTENTS		PRODUCT REVISED
SHEET NO.	DESCRIPTION	as complying with the Florida Building Code
1	ELEVATION AND GENERAL NOTES	Acceptance No. 12-0130.23 Expiration Date DEC. 23, 2014
2	BILL OF MATERIALS AND COMPONENTS	By: <i>Manuel Perez</i> Miami Dade Product Control
3	COMPONENTS AND CROSS SECTION	
4 - 8	INSTALLATION DETAILS AND DESIGN PRESSURE CHART	

Approved as complying with the  
Florida Building Code  
Date DEC. 23, 2009  
By: *Manuel Perez*  
Miami Dade Product Control

**WinDoor**  
INCORPORATED

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
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www.windoorinc.com

1000/2000 SERIES 135\"/>

DRAWN: TJH DWG NO. 08-00661 REV A  
SCALE NTS DATE 12/17/08 SHEET 1 OF 8

*Manuel Perez*  
11/18/09  
LUIS R. LOMAS, P.E.  
Florida No. 62514

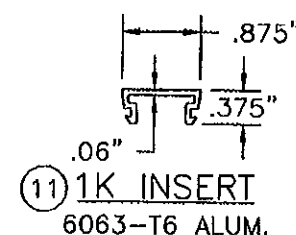
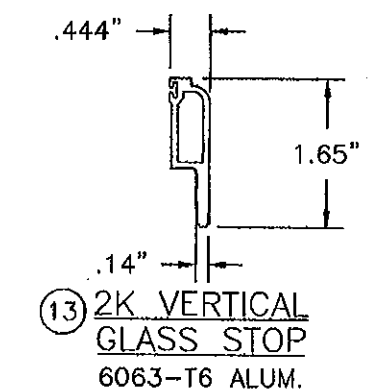
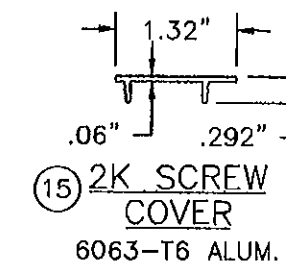
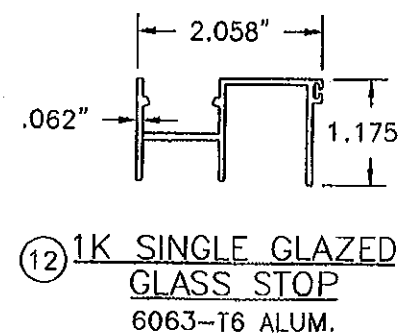
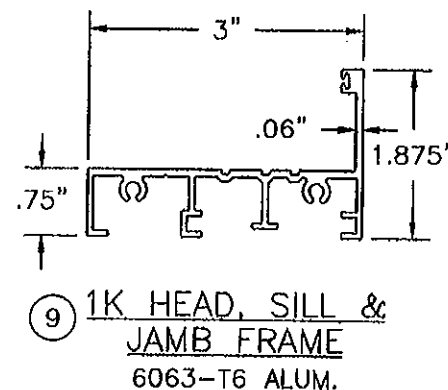
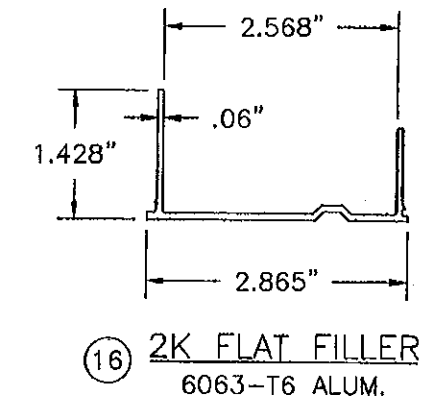
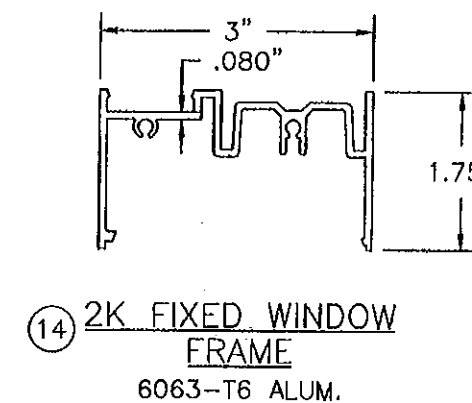
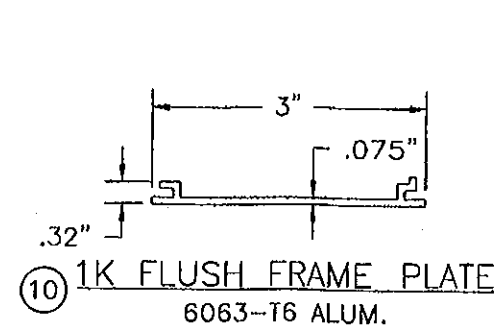
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER TESTING	06/05/09	R.L.

NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE INCLUDING THE HVHZ.
- 2) WOOD FRAMING/2X BUCK, 16GA. STEEL STUD OR MASONRY/CONCRETE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. WOOD FRAMING/2X BUCK, 16GA. STEEL STUD OR MASONRY/CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 4) MULLION MATERIAL: EXTRUDED ALUMINUM 6063-T6
- 5) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN AREAS WHERE WIND BORNE DEBRIS PROTECTION IS REQUIRED.
- 6) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
- 7) MASONRY INSTALLATION:  
HIGH DESIGN PRESSURES SEE SHEET 4.  
LOW DESIGN PRESSURES SEE SHEET 5
- 8) 2X BUCK/WOOD FRAMING INSTALLATION:  
HIGH DESIGN PRESSURES SEE SHEET 6.  
LOW DESIGN PRESSURES SEE SHEET 7
- 9) 16GA. STEEL STUD FRAMING INSTALLATION:  
SEE SHEET 8.
- 10) SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY WinDoor INC. AND MUST BE MADE OUT OF EXTRUDED ALUMINUM 6063-T6.
- 11) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
- 12) TWIN CONFIGURATION SHOWN. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS THE SINGLE UNIT WIDTH AND THE SINGLE UNIT HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
- 13) MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.
- 14) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:  
A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42  
B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,350 PSI.  
C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).  
D. METAL STUD - 16GA. .060\"/>

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	FH-03828	135° WINDOW MULLION	KEYMARK	ALUMINUM 6063-T6
2	FH-03856	4" x 6 1/2" x 1/8" 3HOLE L-CLIP	KEYMARK	ALUMINUM 6063-T6
3	FH-03855	4" x 4" x 1/8" 2HOLE L-CLIP	KEYMARK	ALUMINUM 6063-T6
4	FH-03855	4" x 4" x 1/8" 3HOLE L-CLIP	KEYMARK	ALUMINUM 6063-T6
5		1/4" ELCO CRETE-FLEX	ELCO	STAINLESS STEEL
6		#14 CUT THREAD WOOD SCREW		STAINLESS STEEL
7		1/4"-14 3-POINT TEK SCREW	ITW	STAINLESS STEEL
8		#12 TEK SCREW		STAINLESS STEEL
9	FH-02485	1K HEAD, SILL & JAMB FRAME	KEYMARK	ALUMINUM 6063-T6
10	FS-02862	1K FLUSH FRAME PLATE	KEYMARK	ALUMINUM 6063-T6
11	FS-01882	1K INSERT	KEYMARK	ALUMINUM 6063-T6
12	FS-02479	1K SINGLE GLAZED GLASS STOP	KEYMARK	ALUMINUM 6063-T6
13	FH-01878	2K VERTICAL GLASS STOP	KEYMARK	ALUMINUM 6063-T6
14	FS-02840	2K FIXED WINDOW FRAME	KEYMARK	ALUMINUM 6063-T6
15	FS-02849	2K SCREW COVER	KEYMARK	ALUMINUM 6063-T6
16	FS-02837	2K FLAT FILLER	KEYMARK	ALUMINUM 6063-T6

REVISIONS			
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Miami Dade Product Control

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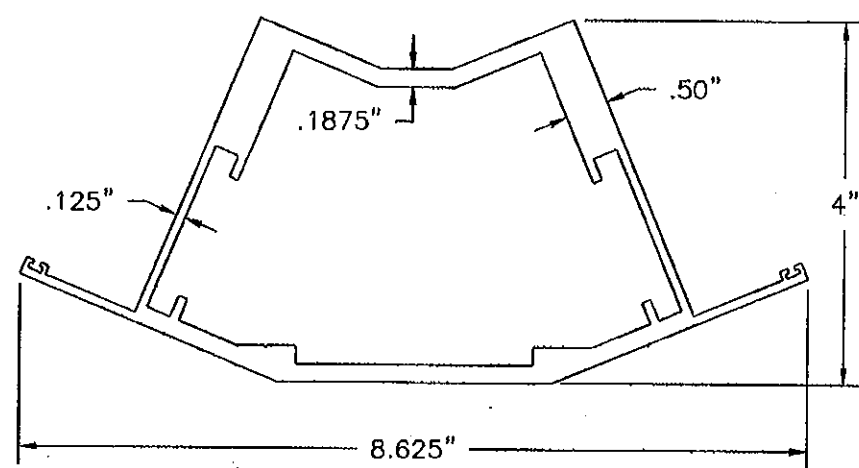
**WinDoor**  
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1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
BILL OF MATERIALS AND COPONENTS

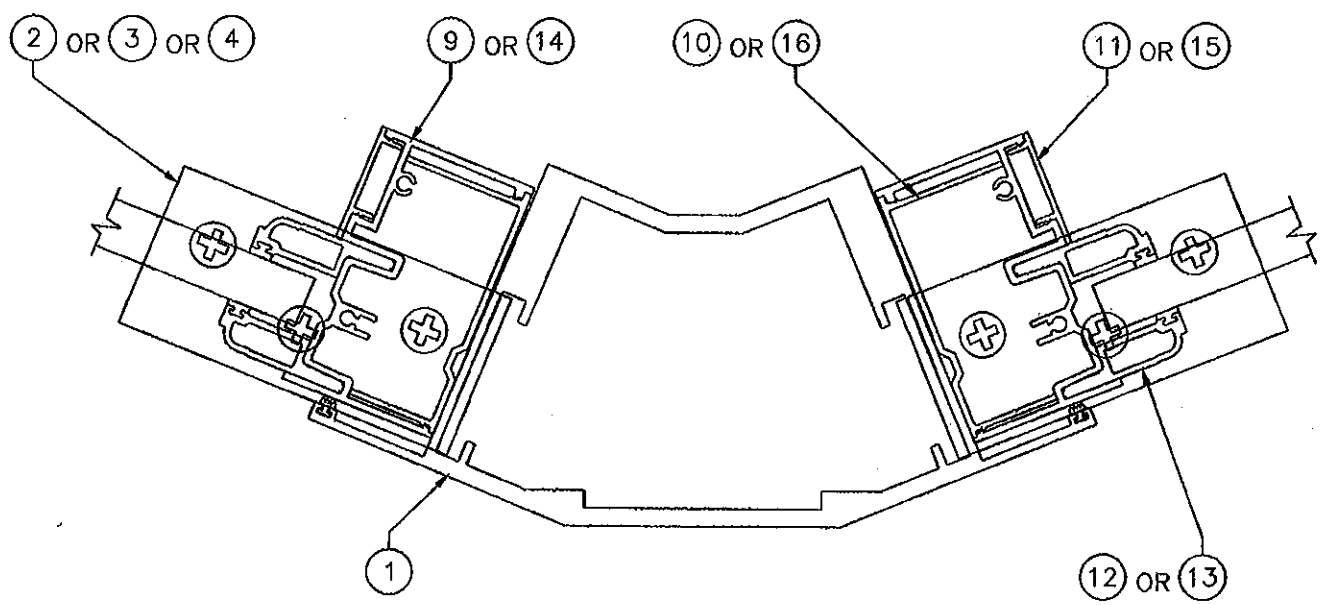
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SCALE NTS DATE 12/17/08 SHEET 2 OF 8

*Luis R. Lomas*  
12/18/09  
LUI S. R. LOMAS P.E.  
Florida No. 62514

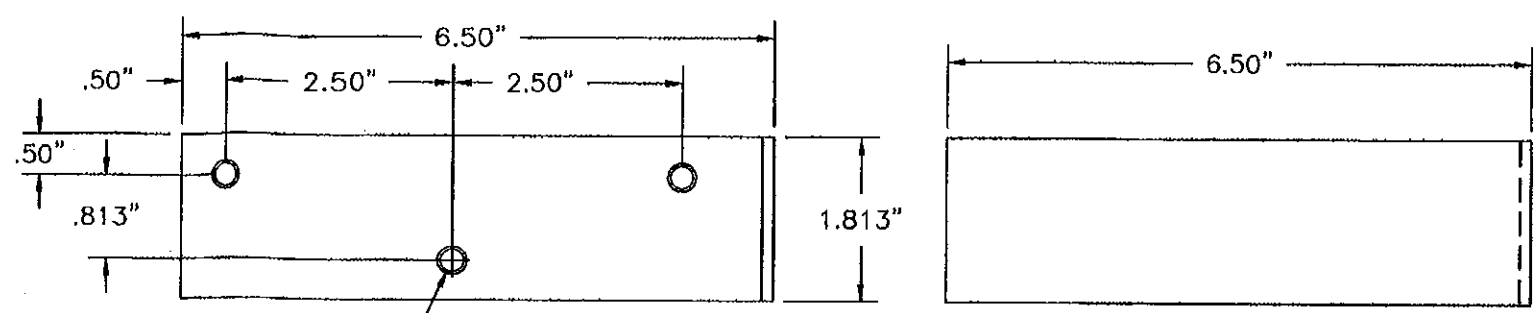
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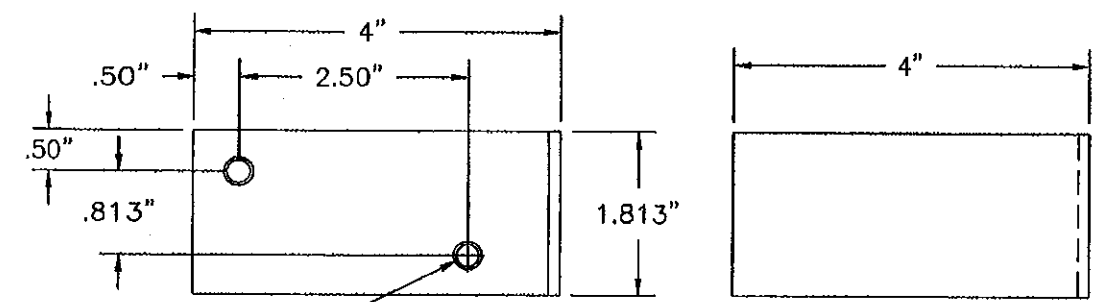
① 135° WINDOW MULLION  
6063-T6 ALUM.



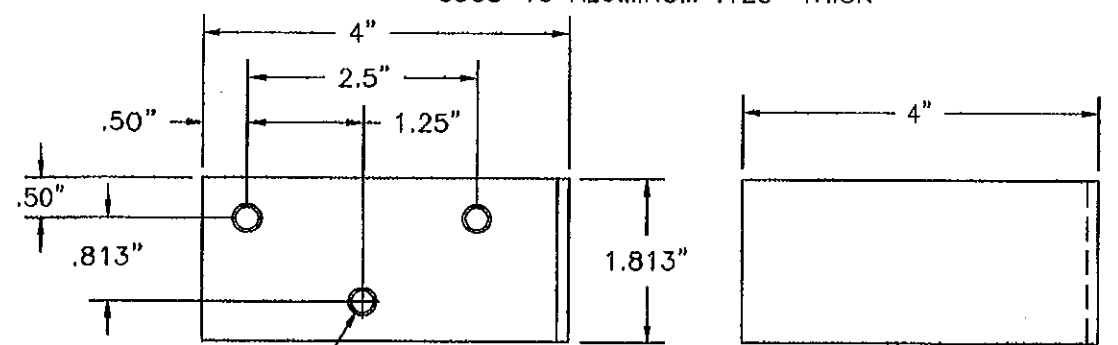
MULLION CROSS SECTION  
TOTAL MI VALUE = 11.9773 in.<sup>4</sup>



② 4" x 6 1/2" L-CLIP  
6063-T6 ALUMINUM .125" THICK



③ 4" x 4" 2HOLE L-CLIP  
6063-T6 ALUMINUM .125" THICK



④ 4" x 4" 3HOLE L-CLIP  
6063-T6 ALUMINUM .125" THICK

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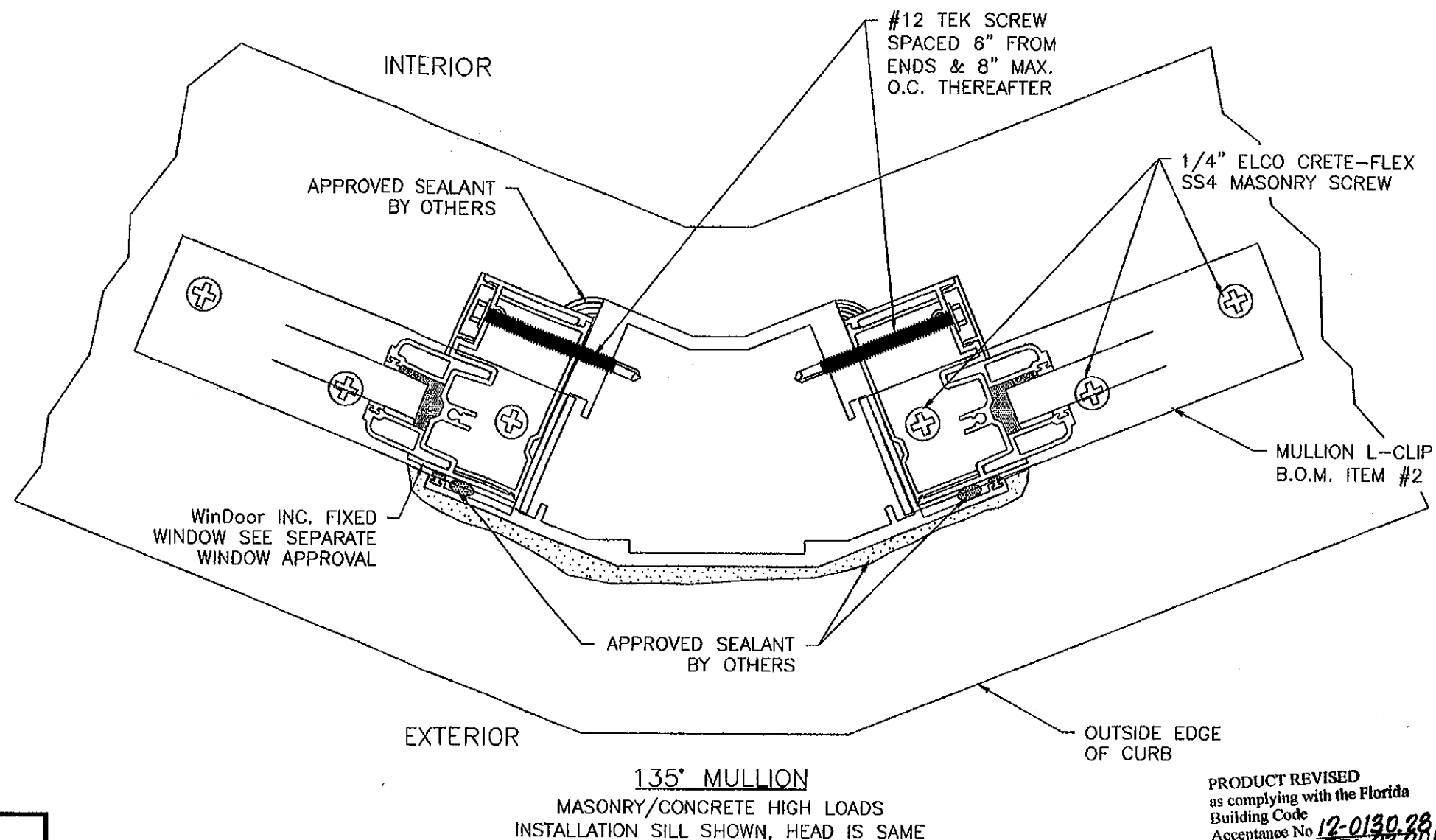
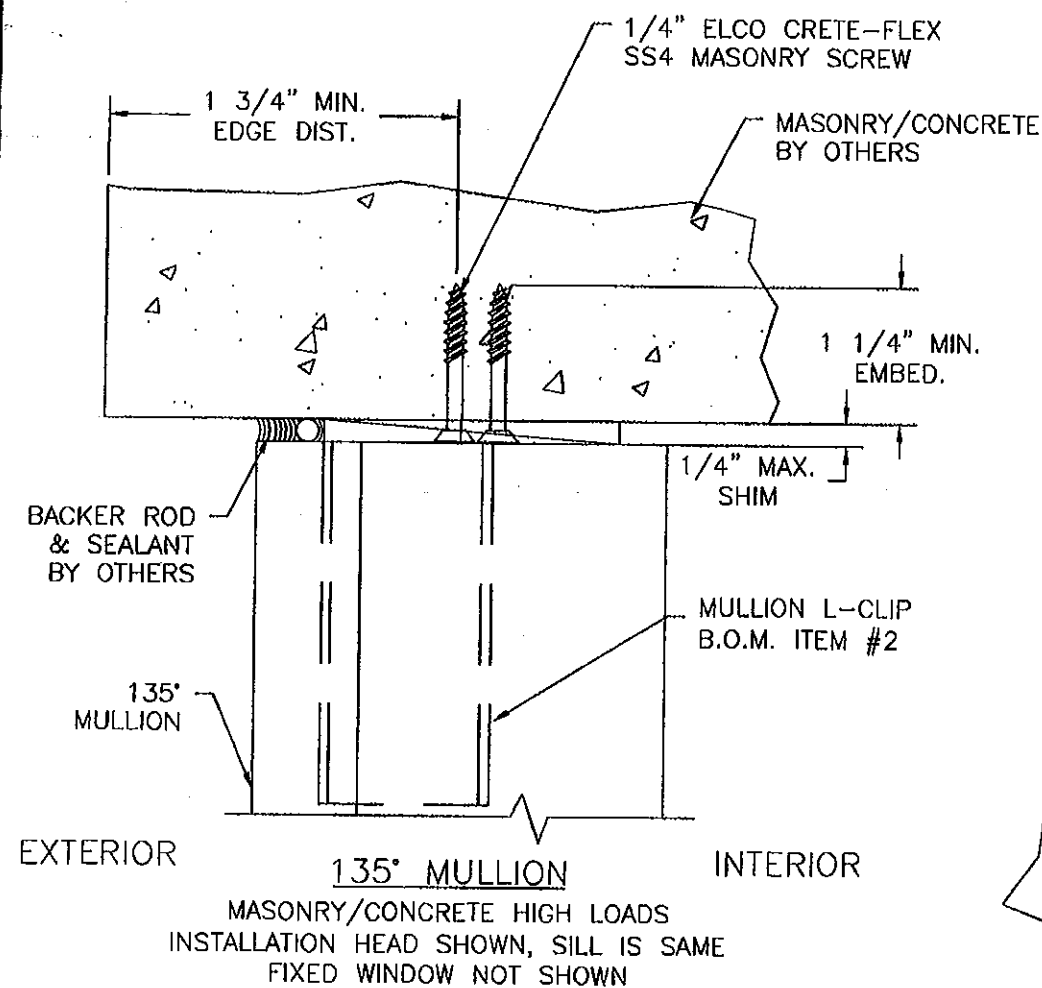
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Date DEC-28-2009  
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1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
COPONENTS AND CROSS SECTION

DRAWN: TJH  
DWG NO. 08-00661  
REV A  
SCALE NTS  
DATE 12/17/08  
SHEET 3 OF 8

*Manuel Perez*  
11/18/09  
12-0130-28  
STATE OF  
FLORIDA  
LUIS R. LOMAS P.E.  
Florida No. 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER TESTING	06/05/09	R.L.

**Maximum design pressure capacity chart (psf)**  
**1000/2000 Series FW 135° Mull Masonry Installation High Loads**

Height (in)	Single Window Width (in)						
	24.0	30.0	36.0	42.0	48.0	54.0	60.0
60.0	200	200	200	200	200	200	200
66.0	200	200	200	200	200	200	200
72.0	200	200	200	200	200	200	200
78.0	200	200	200	200	200	200	198
84.0	200	200	200	200	198	185	176
90.0	200	200	200	196	180	167	158
96.0	200	200	200	181	165	153	144
102.0	200	200	188	167	152	140	-
108.0	200	200	171	149	133	-	-
114.0	200	171	145	126	112	-	-
120.0	182	147	123	107	95	-	-

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Miami Dade Product Control

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NOA# **08-0402.02**  
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By *Mmanuel Perez*

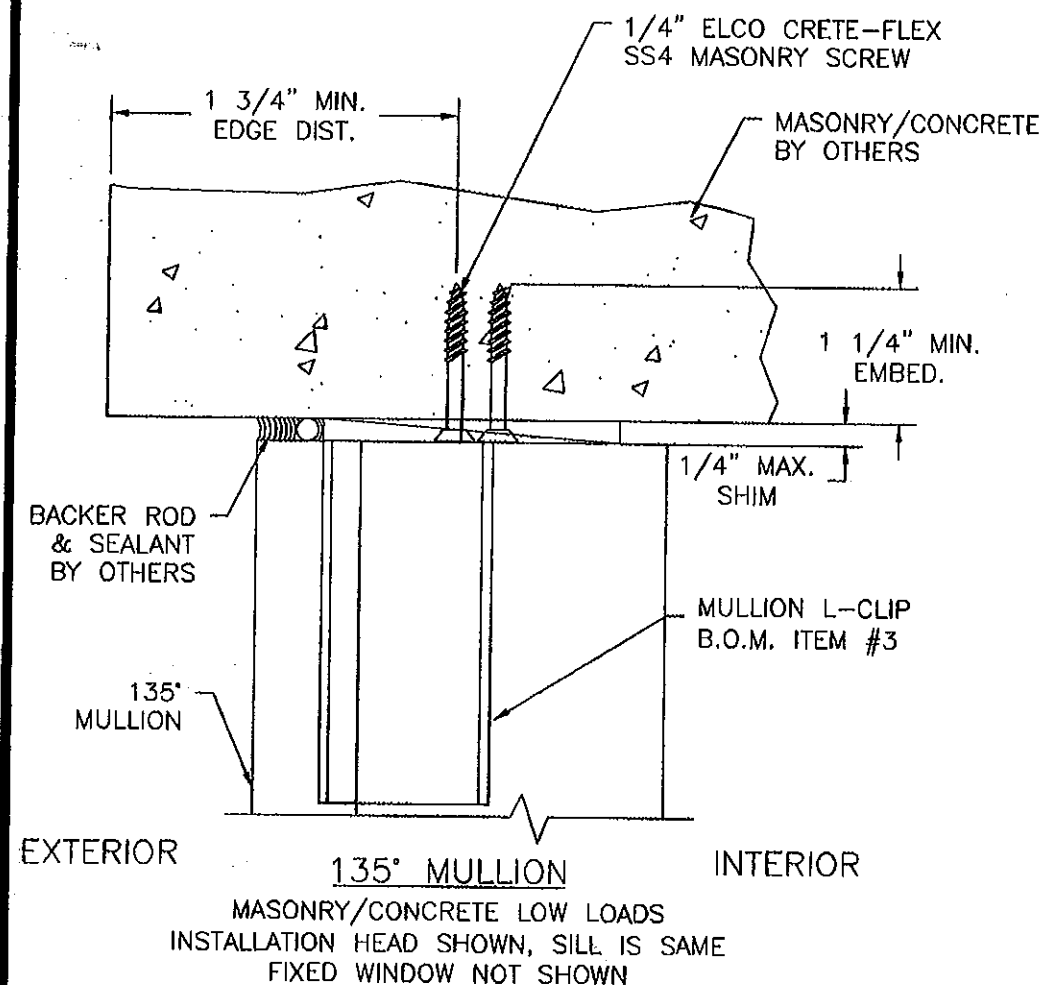
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1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

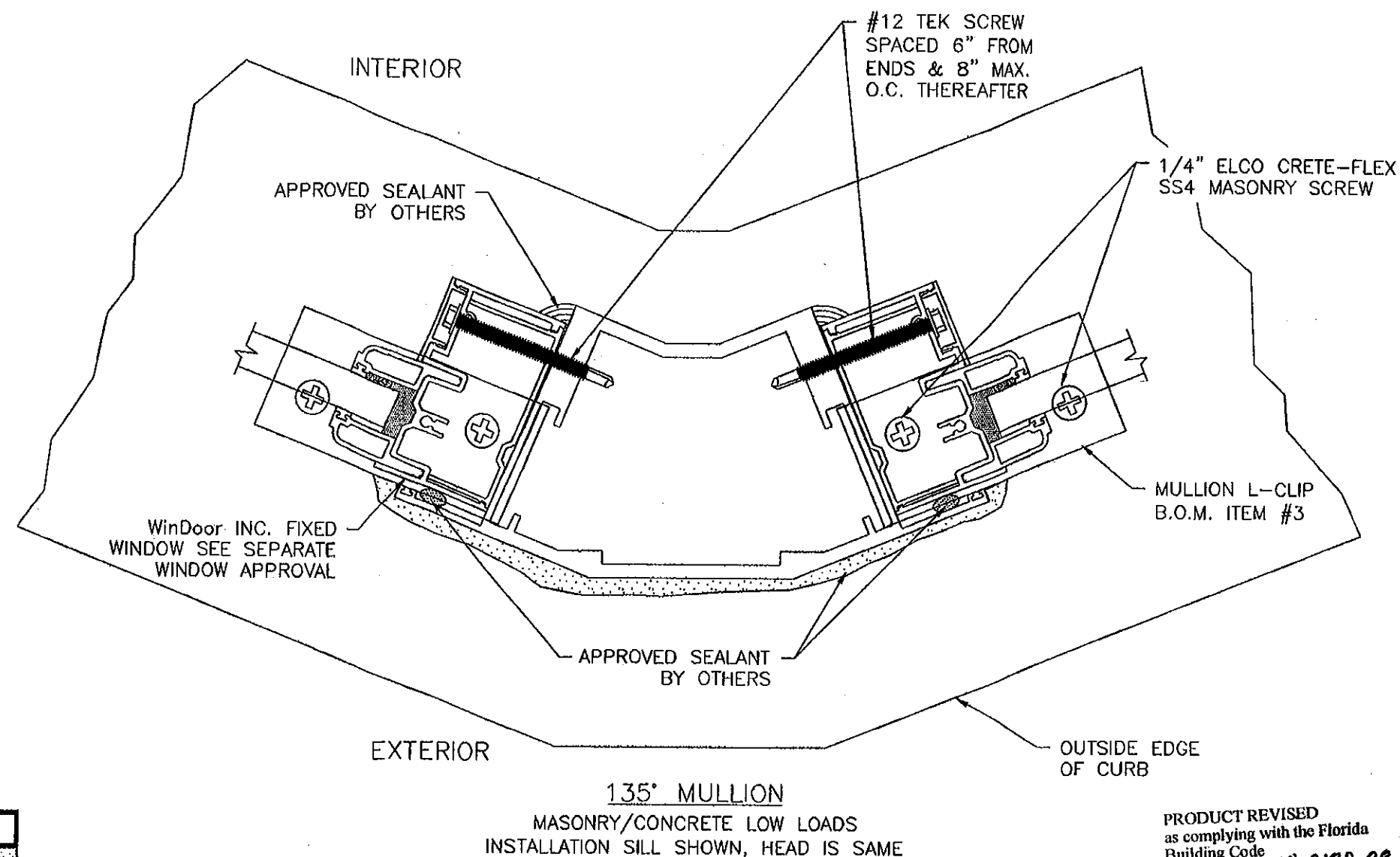
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DWG NO. 08-00661  
SCALE NTS  
DATE 12/17/08  
SHEET 4 OF 8  
REV A

*Handwritten signature*  
**LUIS R. LOMAS, P.E.**  
Florida No. 62514  
11/18/09



**Maximum design pressure capacity chart (psf)**  
**1000/2000 Series FW 135° Mull Masonry Installation Low Loads**

Height (In)	Single Window Width (In)						
	24.0	30.0	36.0	42.0	48.0	54.0	60.0
60.0	200	200	200	200	200	200	200
66.0	200	200	200	200	188	180	176
72.0	200	200	195	177	165	156	150
78.0	200	200	176	158	146	138	132
84.0	200	183	160	143	132	123	117
90.0	200	168	146	131	120	111	105
96.0	188	156	135	120	110	102	96
102.0	176	145	125	111	101	93	-
108.0	165	136	117	104	94	-	-
114.0	155	128	110	97	88	-	-
120.0	146	120	103	91	82	-	-



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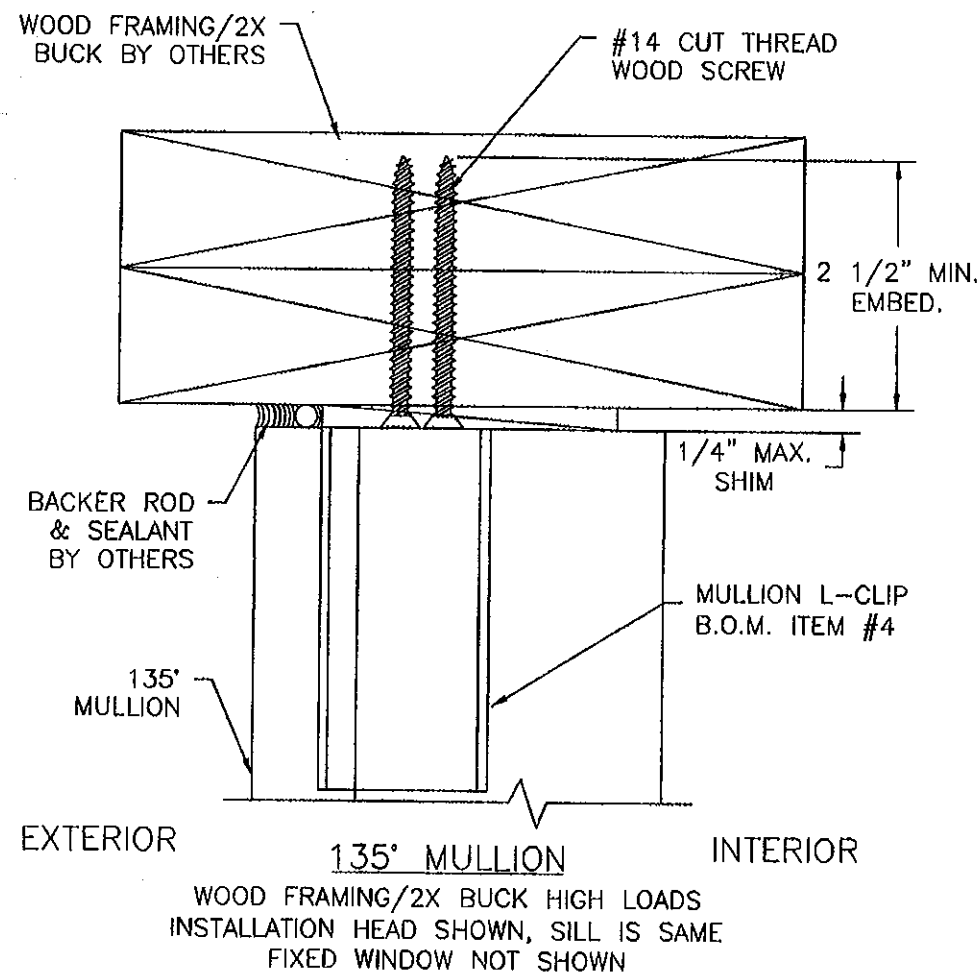
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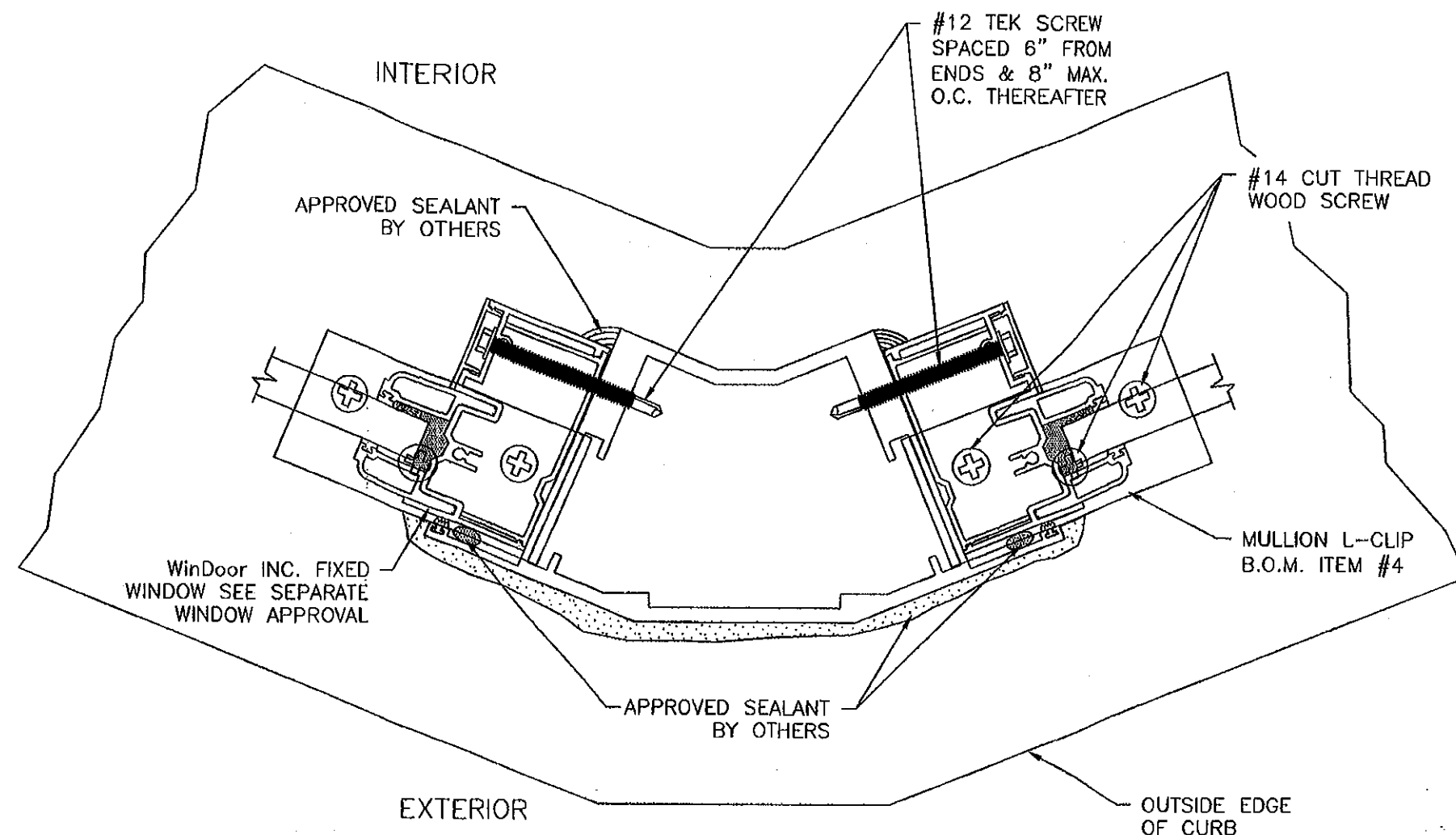
1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

DRAWN: TJH DWG NO. 08-00661 REV A  
SCALE NTS DATE 12/17/08 SHEET 5 OF 8

**Manuel Perez**  
**11/18/09**  
**LUIS R. LOMAS, P.E.**  
Florida No. 62514



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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### Maximum design pressure capacity chart (psf)

1000/2000 Series FW 135° Mull Wood Framing Installation High Loads

Height (in)	Single Window Width (in)						
	24.0	30.0	36.0	42.0	48.0	54.0	60.0
60.0	200	200	200	200	200	200	200
66.0	200	200	200	200	200	200	200
72.0	200	200	200	200	196	186	179
78.0	200	200	200	189	174	164	157
84.0	200	200	190	171	157	147	139
90.0	200	200	174	156	142	133	125
96.0	200	186	161	143	131	121	114
102.0	200	173	149	133	120	111	-
108.0	196	162	139	123	112	-	-
114.0	184	152	131	115	104	-	-
120.0	174	143	123	107	95	-	-

135° MULLION  
WOOD FRAMING/2X BUCK HIGH LOADS  
INSTALLATION SILL SHOWN, HEAD IS SAME

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INCORPORATED

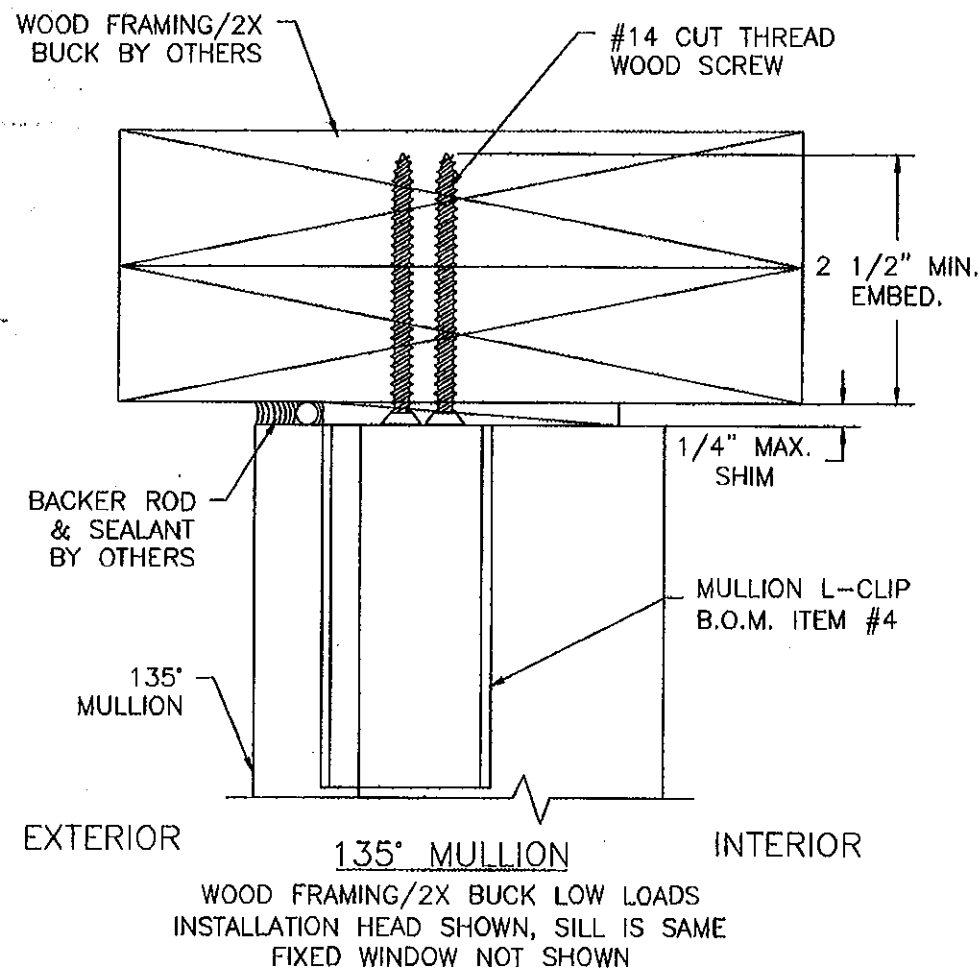
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4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

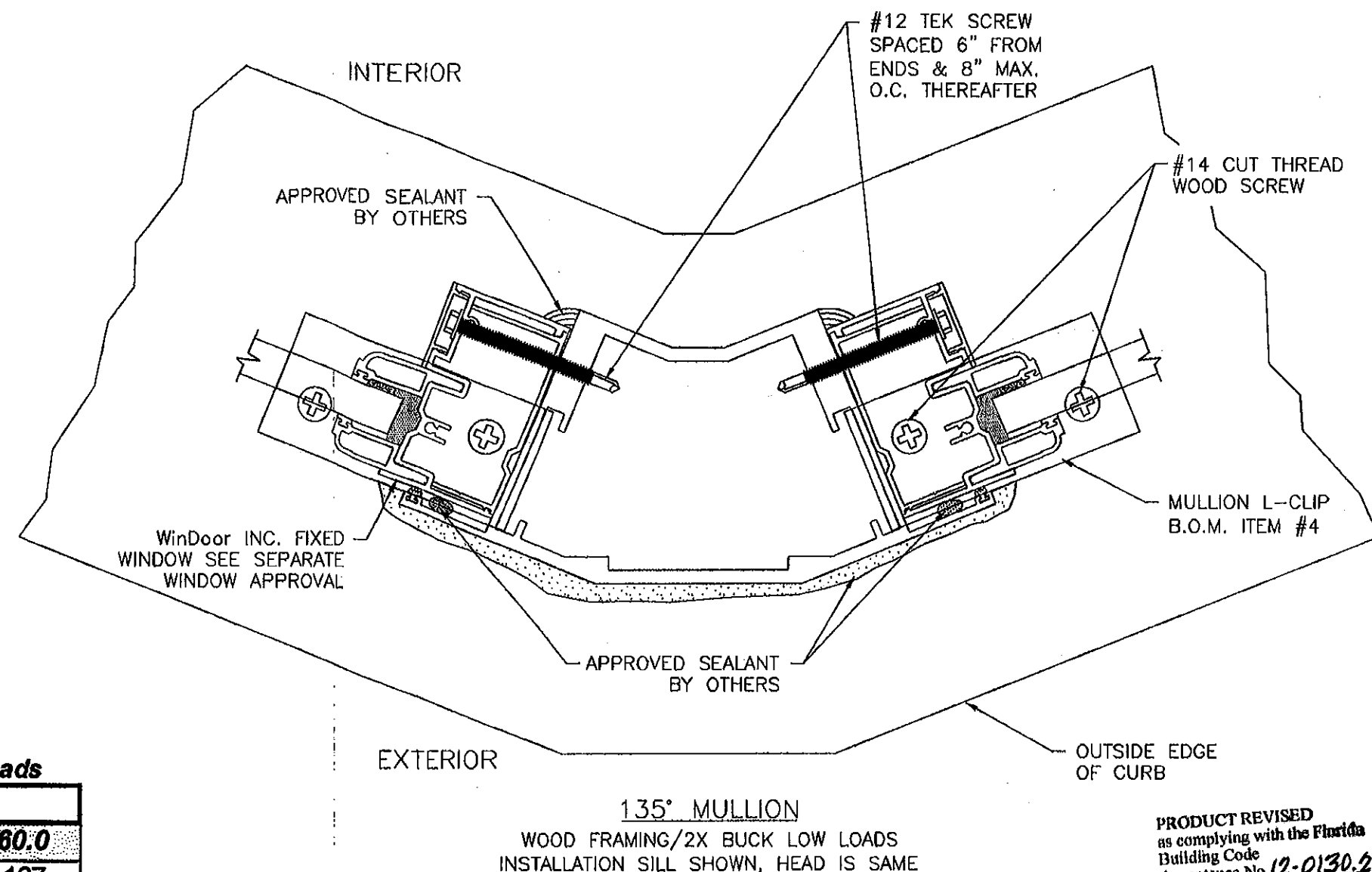
DRAWN: TJH  
DWG NO. 08-00661  
SCALE NTS  
DATE 12/17/08  
SHEET 6 OF 8

*Manuel Perez*  
11/18/09  
Luis R. Lomas, P.E.  
Florida No. 62514





REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER TESTING	06/05/09	R.L.



### Maximum design pressure capacity chart (psf)

#### 1000/2000 Series FW 135° Mull Wood Framing Installation Low Loads

Height (in)	Single Window Width (in)						
	24.0	30.0	36.0	42.0	48.0	54.0	60.0
60.0	200	200	199	184	174	169	167
66.0	200	197	174	159	149	143	139
72.0	200	176	155	140	131	124	119
78.0	190	159	139	126	116	109	104
84.0	174	145	127	114	104	98	93
90.0	161	134	116	104	95	88	83
96.0	149	124	107	95	87	81	76
102.0	139	115	99	88	80	74	-
108.0	131	108	93	82	74	-	-
114.0	123	101	87	77	69	-	-
120.0	116	95	82	72	65	-	-

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0130-28 Expiration Date DEC 23, 2014 By *Manuel Perez* Miami Dade Product Control

Approved as complying with the Florida Building Code Date DEC 23, 2009 MOAH BB-6902-02 Miami Dade Product Control By *Manuel Perez*

**WinDoor**  
INCORPORATED

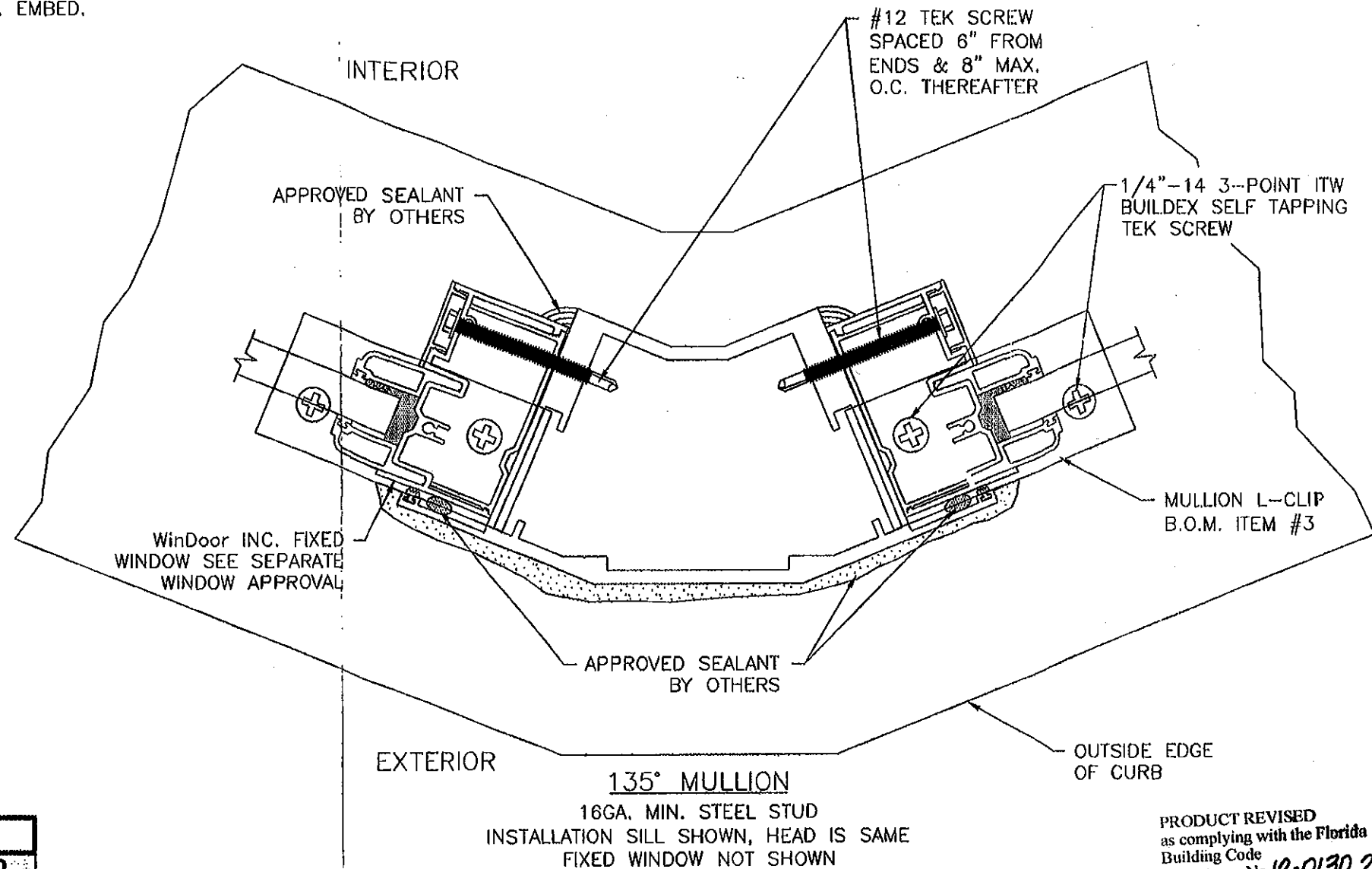
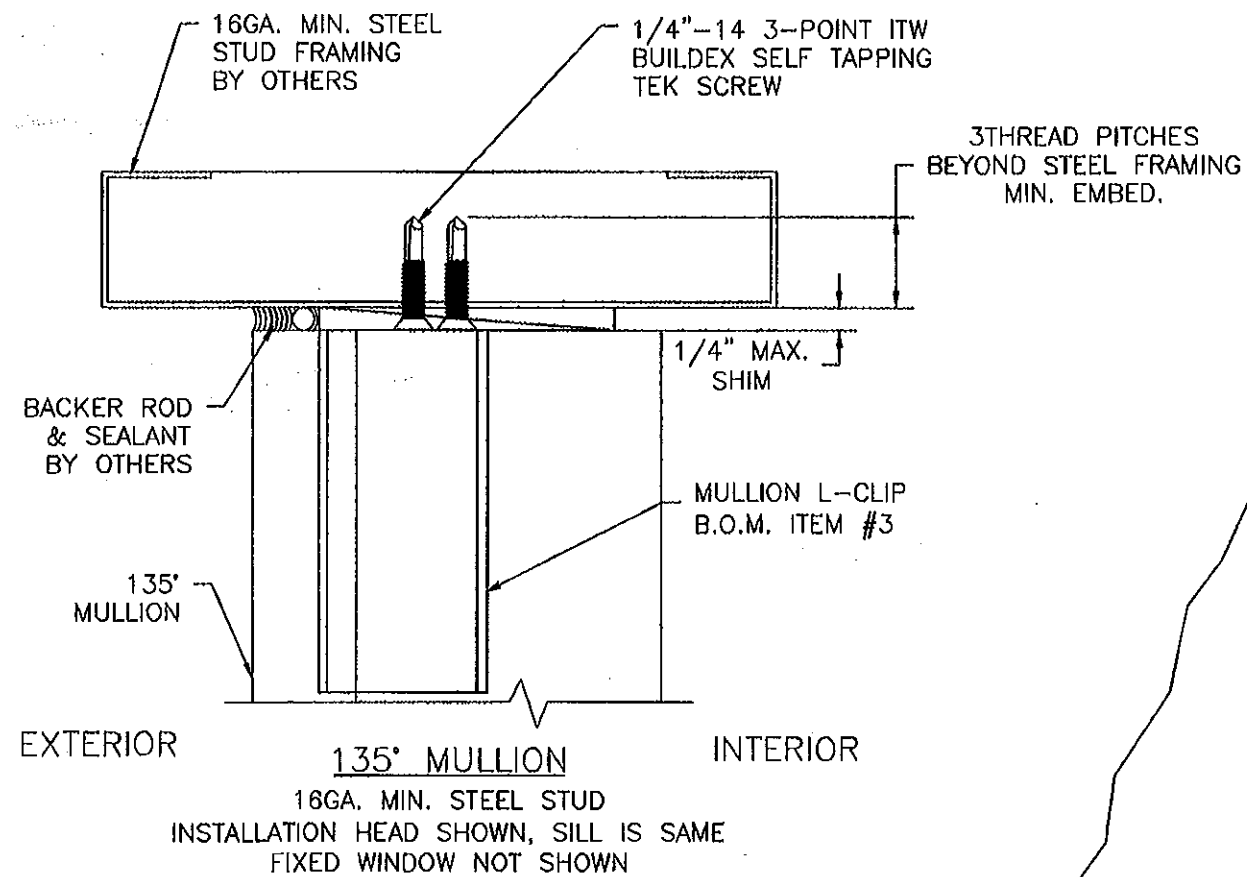
7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

DRAWN: TJH DWG NO. 08-00661 REV  
SCALE NTS DATE 12/17/08 SHEET 7 OF 8

*Manuel Perez*  
11/18/09  
LUIS R. LOMAS, P.E.  
Florida No. 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER TESTING	06/05/09	R.L.



**Maximum design pressure capacity chart (psf)**  
**1000/2000 Series FW 135° Mull Steel Framing Installation**

Height (in)	Single Window Width (in)						
	24.0	30.0	36.0	42.0	48.0	54.0	60.0
60.0	200	200	200	200	200	200	200
66.0	200	200	200	200	200	200	200
72.0	200	200	200	200	200	200	200
78.0	200	200	200	200	200	200	200
84.0	200	200	200	200	200	196	186
90.0	200	200	200	200	190	177	168
96.0	200	200	200	192	175	162	152
102.0	200	200	200	177	159	145	-
108.0	200	200	171	149	133	-	-
114.0	200	171	145	126	112	-	-
120.0	182	147	123	107	95	-	-

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0130-28  
Expiration Date DEC. 23, 2014  
By *Manuel Perez*  
Miami Dade Product Control

Approved as complying with the  
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Date DEC. 23, 2009  
NOA# 08-0902-02  
Miami Dade Product Control  
By *Manuel Perez*

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1000/2000 SERIES 135° LMI VERTICAL MULLION  
4'0 x 10'0 AND 5'0 x 8'0 MAXIMUM WINDOWS  
INSTALLATION DETAILS AND DESIGN PRESSURE CHART

DRAWN: TJH

DWG NO. 08-00661

REV A

SCALE NTS

DATE 12/17/08

SHEET 8 OF 8

*Manuel Perez*  
12/18/09  
Luis R. Lomas, P.E.  
Florida No. 62514